# **Emission Summary**

	Permit Number:	970414P						
Company Name: Continuum Murphy Fractionation Plant								
<b>Source Status:</b> New⊠ Modification  Expansion Relocation	<b>Permit Status:</b> New⊠	Renewal						
PSD NSPS NESHAP Previous Permit Number: Construction	N/A Operating	N/A						

	Pounds/Hour			Tons/Year				
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change	<u>Limit</u> Applicable Standard
PM								0.6 lb/MMBtu
Heater	0.190		7.98		0.830	34.95		T. D. G. C.
Flare	0.562				0.284			TAPCR 1200-03-0602(2)(a)
CO								
SO <sub>2</sub>	0.010	T	1		0.002	0.002	1	
Heater	0.019	-			0.083	0.083		TAPCR 1200-03-1403(5)
Flare	0.0001				0.0003			
CO								
Heater	2.85				12.48	12.48		TAPCR 1200-03-0707(2)
Flare	57.10				28.55			TAI CK 1200-03-0707(2)
VOC								
Heater	0.304				1.33	1.33		
Flare	1.16				0.58			TAPCR 1200-03-0707(2)
Fugitive	3.97				17.36	17.36		
NO <sub>X</sub>								
Heater	2.28	1			9.99	9.99	П	
Flare	12.53				6.26	2.27		TAPCR 1200-03-0707(2)
0								20%
Opacity								TAPCR 1200-03-0501(1)
								TAPCR 1200-03-0503(6)

#### <u>Notes</u>:

-The flare is being used for safe combustion of any off gases
-Emissions from the flare are based on 1,000 hr/yr. Four scenarios were evaluated with worst case venting from the depropanizer.

-Fugitive emissions are from valves, flanges, connectors, and seals.

### EAST PERMITTING PROGRAM

Date of Data: June 17, 2015

**EPS Initials: TFR** 

## **CONSTRUCTION PERMIT SUMMARY REPORT**

Company Name:	Continuu	m Murphy Fractionat	ion Plant	File Number:	37-0188-01	EPS:	TFR
Application Receiv	ed:	June 17, 2015		Application Co	omplete:	June 17, 2015	
Air Quality Analys	is Perforn	ned? Yes No∑					
Project Description Continuum Murphy Fr This operation will correfrigeration unit, one are from the following sources will emit Parti	ractionation ensist of one (1) hot oil s g sources: i culate Matt	e (1) inlet separator, system with a hot oil fugitive components er (PM), Sulfur Diox	three (3) proces heater, one (1) f (valves, flanges	ss units (de-ethanizer flare, and six (6) mic. s, connectors, seals),	r, depropanizer, ro turbines to ge hot oil heater, i	and debutanizer), onerate electrical pomicro turbines, and	one (1) propane ower. Emissions d a flare. These
Oxides (NO <sub>X</sub> ). There v		ical construction.					
40 CFR 60: Subpart G		ds Of Performance F	or Stationary Ga	as Turbines			
40 CFR 60: Subpart K			•		ies		
The turbines are poten subject to either Subpa			rts. However, du	ue to their heat input	capacity (2.28 M	MBtu/hr - each),	they are not
40 CFR 60: Subpart D The heater is not subj defined in Section §60 the process units.	ect to this	Subpart. It is used for	or the hot oil sy	stem, and does not	meet the definit	tion of a steam ge	
Rules Analysis Title V Cond. Ma	jor 🗌 Mi	nor Source ca	tegory listed in	1200-03-0901(4)(b)	01.(i)? Yes	No⊠	
Reason for PSD: Applicable NSPS: Applicable NESHAP Applicable NESHAP		ew source above 40 CFR Part 60, Sub 40 CFR Part 61, Sub 40 CFR Part 63, Sub	$\begin{array}{cc} \text{part} & N/A \\ \text{part} & N/A \end{array}$	State Ru  State Ru  State Ru	ncrease in ule 1200-03-16 ule 1200-03-11 ule 1200-03-31		N/A ⊠ N/A ⊠ N/A ⊠ N/A ⊠
Other Applicable S	tate Rules						
PM Emissions:	1200-03-	06 02(2)(a)	N/A	NO <sub>x</sub> Emissions:	1200-03-	07 07(2)	N/A
SO <sub>2</sub> Emissions:	1200-03-	14 03(5)	N/A □	Lead Emissions:	1200-03-		_ N/A _
CO Emissions: VOC Emissions:	1200-03- 1200- <u>03-</u>		<ul><li>N/A □</li><li>N/A □</li></ul>	Emissions:	1200-03- 1200-0 <u>3</u> -		_
Visible Emissions from	n	Source 01	not to exceed		er Method9	1200-03- 1200-03-	05- 05- 05- .01(1)

### **Insignificant/Exempt Sources**

There are six (6) 0.2 megawatt gas fired turbines that the facility proposes to install to generate electrical power. These sources will constitute an *insignificant activity* or *insignificant emissions unit*, as defined in part 1200-03-09-.04(2)(a)3. of the Tennessee Air Pollution Control Regulations. The proposed turbines would result in potential emissions from the source of less than five (5) tons per year of each air contaminant and each regulated air pollutant that is not a hazardous air pollutant, and less than 1,000 pounds per year of each hazardous air pollutant.